TM 9-1220-221-34/3

TECHNICAL MANUAL

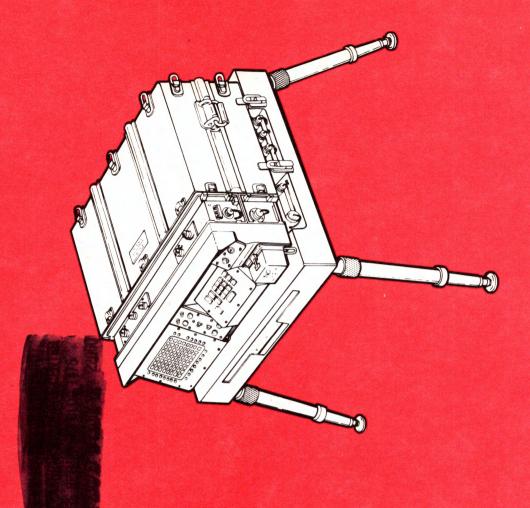
DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL

PROGRAM
PRINTOUT OF
TEST TAPE C
(4931-00-687-8512)
FOR

COMPUTER, GUN DIRECTION, M18

(FADAC)

(1220-00-448-0131)



WARNING



HIGH VOLTAGE

is used in the operation of this equipment.

DEATH ON CONTACT

may result if personnel fail to observe safety precautions.

Never work on electronic equipment unless there is another person nearby who is familiar with the operation and hazards of the equipment and who is competent in administering first aid. When the technician is aided by operators, he must warn them about dangerous areas.

Whenever possible, the power supply to the equipment must be shut off before beginning work on the equipment. Take particular care to ground every capacitor likely to hold a dangerous potential. When working inside the equipment after the power has been turned off, always ground every part before touching it.

Be careful not to contact high-voltage connections of 220-volt ac input connections when installing or operating this equipment.

Whenever the nature of the operation permits, keep one hand away from the equipment to reduce the hazard of current flowing through vital organs of the body.

Do not be misled by the term "low voltage". Potentials as low as 50 volts may cause death.

For artificial respiration, refer to FM 21-11.

Technical Manual)) No. 9-1220-221-34/3)

*TM 9-1220-221-34/3

HEADQUARTERS DEPARTMENT OF THE ARMY Washington DC 29 May 1981

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL

TEST TAPE C PROGRAM PRINTOUT

FOR

COMPUTER, GUN DIRECTION, M18

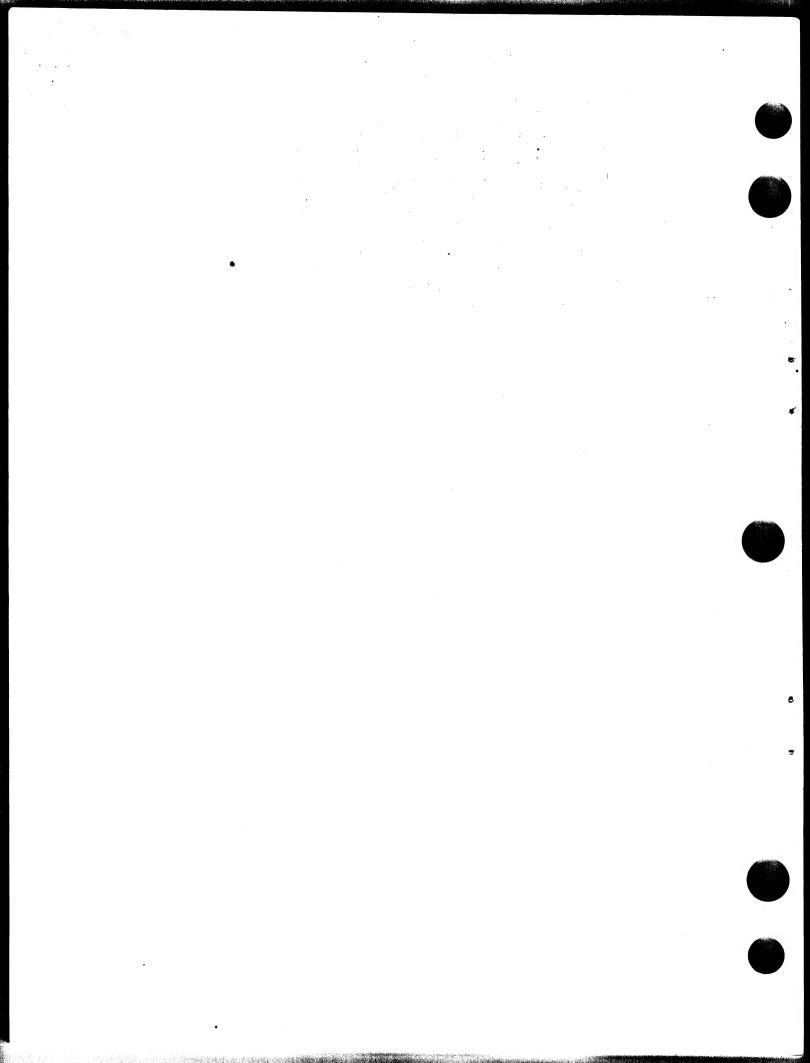
(FADAC)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS, Rock Island, IL 61299. A reply will be furnished to you.

Para Page	1	3-1	3-3 3-1	3-4 3-2
ara	rour	3-1 3-1 3-2 3-1		
d.	3. TEST TAPE C PROGRAM PRINTOUT	I. Introduction General Special terms and abbreviations	II. Operator Instructions Initial FALT setups for FADAC testing	testing
	CHAPTER	Section		
Para Page	1. INTRODUCTION	Scope 1-1 1-1 References 1-2 1-1 Tape cartridge assembly 1-3 1-1	2. DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE USING TAPE-PROGRAMMED TEST TAPE C	Support equipment
	CHAPTER		CHAPTER	

^{*}This publication supersedes TM 9-1220-221-34/3, dated 9 November 1965, including all changes.



CHAPTER 1 INTRODUCTION

I-1. SCOPE

These instructions provide information and guidance for personnel responsible for direct support and general support maintenance of the gun direction computer M18 (FADAC). These instructions provide the current complete test tape C program printout. This printout corresponds to the information in the associated punched tape used in semiautomatic and manual isolation of malfunctions in the FADAC.

1-2. REFERENCES

- a. For a general description of the FADAC and its operation and maintenance, refer to TM 9-1220-221-10-1, TM 9-1220-221-20&P, and TM 9-1220-221-34/1.
- **b.** TM 9-1220-221-34/1 contains a list of references, including supply manuals, technical manuals, and other available publications applicable to the FADAC, its support equipment, and associated kits and equipment.

1-3. TAPE CARTRIDGE ASSEMBLY

- a. Description and Identification. Punched paper tape is supplied in a tape cartridge 8 inches high, 9 inches wide, and 1-1/2 inches deep. The cartridge is equipped with an adjustable filler to accommodate tapes of various lengths. A number on the cartridge identifies the assembly. The tape is identified by a number printed at the start and finish of the tape.
- b. Nature of Tests. When run in association with the signal data reproducer AN/GSQ-64 (SDR) and the computer logic unit test set AN/GSM-70 (FALT), the tapes provide a test of circuits within the FADAC. The circuits tested are noted in the tape program printout listed in chapter 3.
- c. Assemblies Tested. If the tape stops when running⁹ a test and an error indicator flashes on the FALT, the printout should be consulted. The printout indicates the possible malfunctioning assembly or assemblies according to the test number (marker number) being performed when the error occurred.

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE USING TAPE-PROGRAMMED TEST TAPE C CHAPTER 2

2-1. SUPPORT EQUIPMENT

Controls and Indicators. A complete description of the controls and indicators of the SDR and the FALT, including control box C-4020/GSM-70, is found in the operation and organizational maintenance manuals for these units.

b. General Operation.

- (1) A semiautomatic tape-programmed test for the purpose of malfunction isolation may be performed. Load the tape cartridge assembly containing the test tape in the SDR. Connect the equipment in accordance with the instructions on the decal on top of the light shield of the FALT.
- (2) Follow instructions given in TM 9-1220-221-20 & P, or as specified in chapter 3. The equipment may then be energized and the tape run by moving the OPERATE control on the FALT to RESET, then to TAPE. In direct support and general support maintenance shops, this will normally be done with the control box C-4020 mounted on the half-hinge on the right side of the FALT and connected using the cable provided in the control box case.
- (3) When the test detects an improper result (malfunction), the tape automatically stops, an error indicator on the FALT flashes, and a marker number and index number are displayed. The corresponding marker number is then determined from the printout. The test in process is determined by counting the number of columns on the printout which have occurred since the last marker number, up to the index number dis-

played. The step in the test process which resulted in an error is then known. The test may be repeated by moving the OPERATE control to MAN (manual) and entering the commands, using the control box.

CAUTION

No attempt should be made by field maintenance personnel to replace defective components on the circuit boards. Not only can replacement of components have a detrimental effect on the operation of the circuit involved, but indiscriminate use of a soldering iron can cause further damage to the circuits as well as surrounding components. Defective boards should be forwarded through normal supply channels to depot shops for repair.

- (4) Alternate tests may be commanded by manual operation of the control box. The etched circuit board in the board (slot) number indicated by the printout may then be removed and replaced by a spare. The test may then be rerun.
- (5) If the program continues beyond the former point of error, it may be assumed that the replacement board has cleared the trouble.
- (6) For a detailed discussion of the operation and analysis in a typical situation, see TM 9-1220-221-34/1.
- c. Control Box C-4020/GSM-70. The test tape may be run while the control box is attached to the FALT. The operator may insert commands and generate measurements by means of manual operation of the control box. For detailed procedures, refer to TM 9-4931-204-34/1.

2-2. ORGANIZATION OF THE PROGRAM PRINTOUT

- a. Glossary of Special Terms and Abbreviations. Special terms and abbreviations, together with an explanation of their meaning, are listed in chapter 3.
- b. Reading the Program Printout.
- (1) General instructions. The printout is organized in 10 columns. The instructions are self-explanatory. The number in a column by itself indicates the marker number. To determine test progress, the MARKER-INDEX number is read from the FALT display. The marker number is then found in the printout (see chapter 3). All columns are read from left to right up to and including the index number displayed. That

term in the column so determined is the command, action, or measurement in progress when the tape is stopped. Characters or other information not aligned vertically with the 10 columns are not counted in making a determination.

(2) Example. The ERROR indicator of the FALT flashes and the MARKER-BOARD #1 reads 145 and the INDEX-BOARD #2 reads 109. Turn to page 3-40 where marker 145 is. Find marker 145. Find the fourth row of terms. Follow it over to the sixth term where you will find the term 1SA, which is the command in progress when the tape stopped.

CHAPTER 3 TEST TAPE C PROGRAM PRINTOUT

Section I. INTRODUCTION

1 CENERAL

Section III represents the printout of tape-programmed test C. Identification information with possible revision letters or dates is given in the opening lines of the listing, together with connection information and instructions. Check identification information in the printout against identification information on the tape. The printout must correspond to identification information on the start and finish ends of the tape.

3-2. SPECIAL TERMS AND ABBREVIATIONS

- a. The words "tape reader" refer to the SDR.
- b. The words "Manual Entry Unit" refer to the control box C-4020/GSM-70.
- c. Numbers separated by a hyphen (e.g., 015-034) refer to a marker and index number combination.
- d. Symbols followed by a hyphen (e.g., B1-) refer to the complement or inversion of the logic symbol; sometimes referred to in printed text as the prime, or followed by a prime (').

- harness. This harness has three plugs marked P10, P16, and P17 which fit corresponding receptacles on the FADAC. The harness is stored in the rear cover and is part of the FALT.
- reader sense the presence or absence of tape. It is possible main control panel of the FADAC. The tape sensing lever however, the short piece of tape used is of improper width paper tape reader located on the lower right corner of the of this reader rides high when tape is present. When tape to place a short piece of tape underneath the tape sensing lever in such a way that it is not engaged by the sprocket this way, the electrical equivalent of the continuous presence of tape for an indefinite period may be simulated. If, The words "mechanical tape reader" refer to the punched teeth and will not move when the sprocket teeth turn. In high, the equivalent of excessive tape tension is simulatinto a slot. In this manner, electrical circuits within the or too thick so that tape sensing lever rides abnormally is not present, the tape sensing lever roller wheel falls ed, which activates certain inhibit circuits.

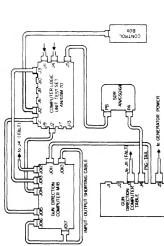
Section II. OPERATOR INSTRUCTIONS

3-3. INITIAL FALT SETUPS FOR FADAC TESTING

- a. CONFIDENCE TEST switch in OFF position.
- b. TEST NORMAL indicator lamp is lit.
- c. DELAY START switch in OFF position.
- d. PROGRAM SKIP A, B, and C switches in OFF position.
- e. WR SW switch in OFF position.
- . HOMING SELECT switch in MARKER INDEX position.
- g. HOMING switch in OFF position.
- h. MARGINAL TEST switch in OFF position.
- i. PRESET STOP switch in NORM position.

3-4. INITIAL FADAC SETUPS FOR FALT TESTING

- a. The memory cable plugs P2 thru P8 are connected to the memory.
- b. The FALT cables shall be connected to FADAC as follows:



- (1) FALT J4 to FADAC J12.
- (2) FALT J3 to FADAC J13.
- (3) FALT J2 to FADAC J14.
- (4) FALT J1 to FADAC J15.
- c. Depress matrix buttons A and 1.
- d. Depress weapon type button 1.
- e. Depress battery button A.
- f. The input-output shorting cable shall be connected between J10, J16, and J17 of FADAC.
- g. Energize the SDR, FALT, and FADAC in that order.
- h. Check both internal and external voltages using the VOLTAGE MONITOR. Ensure that MARGINAL TEST switch on FADAC is in OFF position when checking external voltage with VOLTAGE MONITOR.
- i. Start the tape reader.

TM 9-1220-221-34/3

Section III. TEST TAPE C PROGRAM PRINTOUT

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ero side. B4	CR7	01 CR7	B4	zero side. CR7	٠.	CR7	0 B4 D		one side. Lo CR6 CR5	01 CR6	02 CR5	one side. CR6	OI CR5	OI LKA	CR5		zero side. l CR5 CR6	OI CR5	CR6
or test, TO	B6	. B6	35	and test	-5 10 86	B4	T0 B4	02 EDT	or test, B4 B6	B6	B4	and test		7	5		or test, B4 B6	B6	B4
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TO CR4 AP 44	or test, one B4 B6 CR4 CR3	and test, one 86 01 CR4 B4 01 TRA 86 02 06-	or test, zer B4 B6 CR3 CR4	and test, B6 B4 O1 TRA 02 06- 06	or test, one B4 B6	and test, 86 01 CR3 84 .
1SA 1TF 1SA 1SA EDT	CR3 0SA 1SA 0SA	CR3 1SA 1SA 1SA CR4	CR3 0SA 1SA 0SA 1SA	CR3 1SA 1SA 1SA	CR2 OSA 1SA	CR2 1SA 1SA TRA 1SA
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	2, 3		<u>.</u>	38.	10	328,
	is on boards 327, 1E18 OTF 0SA 1E18 K 0E18 CL2 CR5	11F 11F CR7 02 CR75 G CR5	board 338. 1TF CFSW	OTF OTF board 338. OTF CFSW	17.	327, 1TF 05 06:1
	•	1E18 6 1E18 CL2 CR5 CL]	is on 1E18 1TF	1E18 1E18 CFSW is on 1E18 0TF	CFSW 1E18	on boards 1E18 ND 05
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	ero :	zero	one	zero	zero	02
	or test, z 84 86 86 84 87	test, B6 B4 CR2 B84 CR2 CR2 CR2 CR2 CR2		CFS TX test, zero TX CFS	d test, OE18 TX	test, one TX B2 1TF 1TF TX B2 C6
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Marker number	090	190	062	064	065	990
Tape stops						*

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Marker number 081	085	083

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	Marker number
3-28	Tape stops

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Marker number

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		82
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Marker	number
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721						120	2		129										130					

					03 03
KIOP 02 KIOP	02 KIOP 15A K- 0E18 06- 02	1SA 0W 02 KIOP		•	
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C7 K06- 05 K06-	05 04 04 05	03 06 05 132 K06	20		DP 11F 1E18 0P 1TF 1TF 1TF
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CN7X 0A 0B5 CN7X	085 03 03 06- 085	04 06 08. 06	212. 0TF	2	332, 435. TF TE18 1SA TF TE18 DP DP TE18 DP TE18 TE18
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<u> </u>	DC K- K- OBS CN7X OA DC DC	06 DA- OTF	side OSA OTF	JE18	ide DP is 1SA 0E18 RX
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		DC	for 3 0E18 1E18	0SA	for one si OE18 DP K K OE18 MN DP 1SA DP 1SA
02	00	05	Logic f		ogic
1E18 C6 1E18	C5 1E18 DC DC C DC TX TX OTF	04 DC 96 15A	side. l TP OSA	side. OE18	side. Logic RX K D DP NC OE18 DC OE18 MN
ISA TX- TSA	TX 1SA 1SA 64 07F 02 KIO 10 1E18 1X 0E18	1X 01F 06 1X 0E18	test, zero DC 0E18	est, zer TP	test, one s DC TX DC TX DC TX DX TX DX TX TX DX DX TX TX TX DX DX DX
0E18 KIO 1SA 0E18 KIO	1SA OE18 KIO 1SA 1E18 1SA 1SA 1SA	15A 1618 K06 15A TS0 KI0	DC or OSA 1SA	DC and t 1SA	DP or 0SA
	131	132	133	134	135

Marker number	
Tape stops	

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00- 07- 07- 07- 07- 08-	DP 0TF 0P DC- 1E18	99	9. 99
04 02	40	02	40
0TF 1E18 1E18 	0TF TX 1E18 0ŤF		11···1
		8	
1618 MN 15A 15A 15A 1618 MN 1618	1E18 TXC 1SA TX 1E18 D 0E18		1E18 MN- 1E18
40 50	05	332,	
1SA MNA 0E18 TXC 0E18 	1SA 0E18 TXC 1SA KD3 DP	331, 0TF 1E18 0TF 0TF 0TF 1E18 0P 0E18	OSA MNA- OSA
03	05	ards	03
0E18 03 DP 05 DP 05 CK CE18 03 TXC TXC 1SA	0E18 DP- 0E18	on box 1E18 0E18 1E18 0SA 0TF 0TF 0PP	0E18
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03	40	ero	
MAN	M. KB-		р К. М
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one (ero 0	zero
**************************************	XXX XMXX YOUNG XXX XXX XXX XXX XXX XXX XXX XXX XXX X		nd test, zero 9 T0 01 KB- 05 T0B
01 05 05 05 05	03 03		ol te
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136	137	138	139

02						05
11F 10B DP DC-	00 00 00 00 108		8			TTF DSH
05	04		6			10
1E18 1TF DP TO	11F 11F 11F		. •			JE18 DSH JTF
1		99		90		
OSA DC- 1E18 MN- 1TF 1TF	1E18 1E18 1E18 D DP		DX		-00	DSH 1SA 1TF 1E18
04	02	217.			10	216.
T0 0E18	OSA OSA OSA OSA KD3	°××	OTF	216. DX DX		215, 1TF 0E18 1E18 1SA
5 TOB MN K N 0E18 0SA 10 0SA 10 0SA 10 0SA	0E18 0E18 0E18 0E18 0E18 0E18	on boards 1TF 1TF	1E18	is on board OTF OTF	Σ	s on board 1E18 S 1SA 0E18
KD2 KD2 KC-	MN AN AN OSA	de Di	1SA	side JE18	1TF	one side DSH is 1SA X2 0E18
DX- D 03 CKB- KKB- RX 05 MNN	K C D D D KB- OE18	or o 1SA 1SA	0E 18	for 0SA 0SA	E18	for opens opens XZ XZ DSP
1SA 10 DC 10 DX DY DX DY DX DY DX	T0 DX CD C CO C	DX or test, one side. Logic f OSA DO OE18 1SA DX OE18	t, one side. OX DO	DX or test, zero side. Logic f OSA DX OE18 0 1SA DO OE18 0	DX and test, zero side. 1SA 0E18 1SA	st, one side. Logic TX DSP TO B2 TO B2 TX DSH
	140	141	142		144	145

		10	05	
	0TF 0TF S- 0TF	OTF OSA	DSH 1TF DSH	15A 15A 15A 0E18 15A 0E18
	8 8 8	ω ω	. ∞	80 80 80 m
	Ē ·Ē · · ·Ē	DSH 1E1 0E1	11. 12. 17. 17. 17.	402. 0E18 0E18 E4 0E18 E4 E5
		OTF OSA X1		212, 401, E2 MMN E3 MMN E2 E2 E2
	0E18 0E18 0TF 0E18	ard 215. 1E18 0E18 TS0 TS0	0SA 0E18 0SA 1E18	ards 210, 211, cn2 E5 E1 E1 E1 E1
	x2 S . 1E18	DSH is on bo OSA X1 X1 DSH OTF	0E18 X1 0E18 0SA	s on boards Mi E2 Mi O2 CN2 O3 Q0 E3
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	DSH DSP OE18 S- DSH	D	2 2	· ·
	test, one side. TX TX O1 XCT TX DSH C2 X2 B2 DSH T1 XCT TX T0 TX T0 TX T0 TX T0 TX T0 TX	de. B1 B3 B4 DSH OE18	ide. 83 83 10P 81	CC6 CC6 CCN3 CCN3 MN CCN3 CCN3 CCN3 CCN3 CCN3 C
	and	nr test, 84 84 86 86 81	and test B4 01 X1 B6 B6 01 B1	test \$\chi_{\chi\ti}{\chi_{\chi\ti}{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}{\chi_{\chi_{\chi\ti}{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}}\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}}\chi_{\chi_{\chi_{\chi\ti}{\chi_{\chi_{\chi\ti}}\chi_{\chi\ti}\chi_{\chi_{\chi\ti}\chi\ti}\chi_{\chi\ti}\chi_{\chi\ti}\chi_{\chi\ti}\chi_{\chi\ti}\chi\ti}\chi_{\chi\ti}\chi_{\chi\ti}\chi\ti}\chi\ti}\chi\ti}\chi_{\chi\ti}\chi\ti}\chi\ti\ti\ti\ti\ti\ti\ti\ti\ti\ti\ti\ti\ti
Marker number	146 DSH 1SA DSH 1SA 1SA 1SA 1SA	147 DSH c 0SA 1SA 1SA 0SH 0SA 1E18	148 DSH 1SA	149 MN or 0SA 1518 1518 1518 0SA 1518 1518 1518 1518 1518 1518 1518 151
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E1 15A 0E18 0E18 E5 1E18	11	0E18
E3 0E18 MMN E4 E2 1SA 1SA 0E18	MN 1E18 Mi 1FF 1FF 1FF 1FF 1FF 1FF 1FF 1FF 1FF 1F	· MM ·
E2 E5 E2 E1 7 0E18 E2	1TF 1SA 1SA 1E18 • 1E18	11F E5
05 E5 CN2 CN2 E3 E3 E1 CO CN2 CN2 CN2 E3 CN2 CN2 CN2 CN2 CN2 CN2 CN3	1E18 0E18 0E18 1SA 1SA 1SA	3 . 1618 00
66 MN AO CN2 CN2 CN2 CN2 CN2 CN2 CN2 CN3 MNN CN2 CS	1SA MMN 1SA 1SA 0618 0618	
90 90	.— ∞. ∞.	8 7
MW WW WC C5. C5. C5. C6. WW	061 12F 12F 12F 06 03	ME OE .
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C5 C03 C03 MN MN MC MN MC MN MC C7 C7 C7 C7	MWN . NWW . DWE . D . 4 . D	O3 MN MN
07		
C6 1E18 CN4 MN C7 1TF CN3 1SA CN3 1E18 MC		1E18 05 K 1TF
	10 10	
C7 1SA 1TF 1TF CN4 1E18 1X TX MN CN4 1SA 1SA	C6 C7 C6 E E 1E18 MN MN E E 1TF	1SA MN E 1E18
0SA 0E18 1SA 1SA 1SA 1SA 0SA 0E18 1SA	0SA 1SA 0SA 1SA 1SA 0SA 1SA 1SA 11SA 11S	0E18 1SA 0SA 1SA
150	151	

	1SA
Marker number	152
Tape stops	

35	18	10	00	
MN E55				MN MN 03 0TF
	19	60	05	
NO NO MN OE18				02 0TF 04 1E18
1E18 02 1TF MMN 1SA 1SA	E5 11F 1E18	CN2 OTF OTF CNLO	CN2 1E18 05 07F	03 1E18 C6- 05 1SA
15		10		9
1SA 04 1E18 E5 0E18	AO 1E18 1SA 1TF	MN 1E18 02	MN 1SA C6- MN 1E18 02 0TF	05 1SA CN2 0E18
			10	10
0618 MN 11SA NO TP	05 05 15A 0E18	MC 1SA 03	MC OE18 MC 1SA 03 1E18	MN OE18 C7- MN MMN
12	18			60
03 05 05 05 05	06 06 0618 MMN 1SA	C6 OE18 MMN 05 OTF	C5 E4 C7- C6 OE18 MMN O5 1SA	MC MC MC E4 MMN
9[10	10	60
0.44	MC	C7 E2 MN 1E18	CN3 E3 C7 C7 MMN OE18 C6-	CNLO CNLO C6 E2
			9	0
05 11SA 06 11TF	M. D03 TF. O	GN3 MMN MMN MC 1SA	CN2 CN2 CN3 CN3 CN3 MMN	CN3 E4 C7 E1 CNU6
16	17	e s1	00	03
1SA MN OE18 11 SA MN OE18 11 SA MN OSA E E SE SA MN OSA MN OSA MN OSA MN OSA E SE S	MAN JE. N	cN4 CN4 DO C5 C5	CS- CNL1 CNL1 CN4 E3 C5- C7-	CN4 E3 R0 CN3 A0
14	19	d the	00 00 00	05
15A MMN 15A 05A 15A MN 05A	MN OSA 1SA 0SA	MN an 1SA 02 CNU6 1SA E6	15A 02 07- 15A E1 CNU6 15A E6	1SA E1 1SA 02 MN

60	40	90		90	90
00 CNL4 02 0TF	CNU6 CNL5 QN CNL5 QO O3 CNZX	03 03	E2 CNU6 OSF C7-	02	
03	90 98 80	02	00	90 60	
03 1518	02	A 05	05	MW	00 NM -90 -90
RN MN 05 1SA C5A	MN WN	CN2 MN CN2 OTF	03 TX 03 03	05 01F 013 MN MN 05 CNL4	.¥0
02 0TF CN2 0E18 CN7X	05 0TF 02 0TF 05 1E18 C7- MN		05 CN7X 05	CN2 1E18 C6- 05 07F	05 1E18 C7-
90	60		95	10	60
JE18 MMN	1518 03 1618 15A 15A	MC 1E18 MC 1SA C7-	CN2 CN2 CN2	MN 1SA CN2 CN2 1E18	CN2 1SA
		60	10		
05 1SA MC 1SF CNLO	MC 1SA 05 1SA MC 05 05 05 05 05 05 05 05 1SA	C6 1SA C5 0E18	MN MN OTF	MC 0E18 C7- MN 1SA 05	MN 0E18 C5-
10				60	
MN 0E18 C6- C5	C6 OE18 MMN MMN OE18 C6- C5 MMN C5A CN3 OE18	CN3 OE18 CN3 E4 RM	MC OTF C7- MC 1E18	CN3 E4 MC OE18 MN	MC E4 C5A-
10	01 01	0	60		
MC MMN CN3 CCM CE-	C7 MMN MMN C0.3 1SF C0.7X C0.4	E2 CN4	CN3 1E18 CN3 1SA	CN4 E2 CNL4 C5 E4 E4 ISA	cn3 E2 cnu6
03	07	0 0		90	03
C5 1SF C7- TX E1	CN3 E4 MMN C5- 1X- TX E4 TX MMN	CSA MX.	CN4 1SA C5- CN4 0E18 C6-	TX E1 CN3 CN3 TX TX	C6-
60	60	9	10	03	01 01
1SA 1SA QM MN C7-	15A 15A 15A 15A 15A 15A	15A 02 06 15A 02 07X	1SA 0E18 C5A- 1SA E6	18A 000 06- 18A E1 18A	15A A0 A0
	155		156	157	

	01			60	60			=		12			13	
	60 66	E3 CNU6	Ei CN7X	.09	ᇤ .	٦٥٠ ټ	.88.	05	A0 0L0	. 03	Ao OLO	OM OM	٠₹ .	L0 0L4
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	MC 1E18 MN OTF	₩. 1E18	MC -	MIN ASI	MIN 1SA	D. 0E18	C5 0E18	¬2₩	C5 1E18 02	C5 ₩	c5 0E18	C5 0E18	.48	032- C5 1E18 04-
		8	<u> </u>	0					13					14
	C5 1SA MC 1E18	CN3 1SA	. 93 WWW.	MC 0E18 C6-	MC 0E18	-93 WW WW	RM 3	80 80 80 80 80 80 80 80 80 80 80 80 80 8	CN3 1SA	CN3	R C C	CN3	.88 8	15A
				10		9		,	2	:	6		•	2
	CN3 OE18 TX 1SA	TX 0E18	E72-	E6 TX	TX E4	c7 0SF	NO N	CON P	CN4 0E18 04-	CN4 A0	CN4	S S S S	MWN MWN	CN4 0E18 02-
				60			6 9	<u>∞</u>			;	= :	2	
	1SA E4 1SA 0E18	184 184	15A- 15A E3	15A L0 C7-	1SA E3	C7- 1SA NO	1sA DO	15A 00	15A 18M 04B	1SA 02	18A 00	1SA NO	1SA RM	15A 18M 032
Marker number	158				159					160				

E 16 9[17 CCN3 19

Marker	number
lape	tops

		00
0SA 0E18 0SA E4 0SA E4	0.0518 0.0518 0.0618 0.0618 6.5 1.618	OSA MN MN OE18
. 0E18 E2 0E18 E3 0E18 E2 E5	. 0E18 MANN MANN E2 0SA	OE18 MN OTF MN OTF MMN IE18
211, 212. RM RM MMN E1 E1 E2 E2 E2	E E E E E E E E E E E E E E E E E E E	E4 OTF OTF OTF OTF E5 SSA
210,	·	
IS 209, CNZ CNZ CNZ E5 E5 CMZ CMZ CMZ CMZ E5 E5 CM CMM CMM CMM CMM CMM CMM CMM CMM CMM		E3 1E18 0SA 1E18 0SA 04
boards 02 02 03 04	07	# & # & & # &
is on b MC MC MC CN2 CN2		05/ 00/ 00/ 00/ 00/ 00/ 00/ 00/ 00/ 00/
Σ		<u> </u>
Side E5 E5 E5 E5 E6	MN CNS CONTROL	MN. MN.
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	C5 MN C6 MC MC MC C6 1E18 MC C7	CN2 E5 C7 C7 C6 C6 MC MC
_ogic	07	
de. 1 CNA CNA OTF CG MN CNA CN3 CN3 CN3 CN3 CN3	C6 C004 MN C7 C7 C7 C7 C7 C7 C03 C03 C03	MWN MWN WWN W WWN W W W W W W W W W W W
t, zero si 077 075 118 1518 077 17 005A 005A 005A 005A	C 7 1 1 E 1 8 1 E 1 8 C N 4 C N 4 C C C N 4 C C C N 4 C C C N 4 C C C N 4 C C C N 4 C C C N 4 C C C N 4 C C C N 4 C C C C	1X 00TF 06 1X 1X 1X 1E 1F 1S
tes		10
MN or 0SA 15A 0SA 1618 1618 0SA 0618 05A 0618	0.5A 0.5A 1.5A 1.5A 0.5A 0.5A 0.5A 0.5A 0.5A 0.5A 0.5A	15A 1618 0SA 15A 15A 0SA 0SA 0SA 0SA 0SA
163	164	165

		11	10	10
JE18 MMN	OE18 OŤF OŤF	OE18 MN OTF	03 117 177 177 177 177 177 177 177	TXC TXC
			10	38
osa Es oïF	MMN 1E18 0E18 1E18	MMN NO NO 1E18	05 1E18 TXC RM C7- 03 1TF	
			18 09	60
0E18 02 1E18	E5 0SA MMN 0SA	E5 1E18 0TF L0 0SA 1E18	CN2 0SA 05 05 1E18 C7-	MMN- A0
			60	01
NO 04 05A	02 0E18 E5 0E18	05 05A 1E18 D0 0E18 0SA	MC OE18 MMN- O2 C02 CN2 OSA 	
13			01 10	05
02 06 06 0618	06 DO: 05 NO: 06-18	06 05 18 05 A 0 MMN 06 18	033 MAN 0618 0618	MMN- 03 · ·
	14	16		60
	AO. TP. Mr. 3.	MMN OE18 E5 E5	C7 1SF MMN 05 MN C5 C5	05 MN
12	15		60	
. MC	00 03 . C 0	MC MN DD 03 03	CN3 CN3 CN7X CN3 CN7X	CNU6 CNU6 TTF TX
12			05	05
MN 05	05 05 06 08 09 09 09 09 09	AN AMA	CN44 CNU6 CNU6 CS 1E18 TXC CN4 CN4 CN4	
	15		zero s i 01 18	18
OTF TX MN E OSA TX	HE . HE . XT . XT		test, ze TX A0 TX 0SA TX D0 01 RM- 18 TXC	MN TX OSA
<u>~</u>		16 71 81	nd 1	
1E18 1SA 0TF 0SA 0E18 1SA	OSA OSA 1SA MN OSA 1E18 1SA 1SA	OSA OSA OSA OSA OSA NM NN 1SA	MN and 1SA 02 1SA 0618 C6-1 SA A0 1SA	17F 17X 15A 0E18 C6-

	18/
Marker number	168
Tape stops	

	05	18	10	03	10	07	8	02	18	
	A0 · ·	03 0SA	. E6	A0 09 C7-	AO MN E6	.ö .ऱ	03 TX 0SA	A0 8 TXC	02 1TF TX 0SA	00 WN 0
	02 MN .		09 C7-	. S M	09 C7-				03 1E18 TXC 0E18 10 C6-	·92.
	03 1TF TX					02	CN2 OSA E6	03 11F C6-	05 0SA 10 MMN- E6	
	05 1E18 TXC				05 0SA 02 CNL5	03. C6-	MC OE18 MMN- DO C7-	05 1E18	CN2 0E18 A0 C7-	
	MC 0SA	MC E4							MC MMIN 02 02 09	05 0E18 C5-
	C5 0E18 C6-	cé E2 CNU6	05 MN		C6 MMN 10 05 MN		C7 1SF MMN- 04 CNL0		C6 1SF MMN- 03 CNL4	c'n2 E4 C5A-
		03	.∴೬	~ 10 t 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SF IN-				C7 E4 09 05 06	90.
				8	60					03
	CN4 E3 09 C7-	CN3 QM MN			CN3 E4				CN3 E2 06 CN7X MC	CN3
	E1 .	TX. 11F							E1X.	TX QM 06 A0-
•	1SA RM RO-	18A 02 1E18	TXC 1SA 0E18			C6- 1SA E3 CN7X	15A 02 MN 15A 1518	LXC LXC TXC TXC TXC	1SA AO MN 1SA 1E18	1XC 1SA NO
)										

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AO MN 1E18 TXC E3 CNU6	A0 1TF TX TX 0E18 C6-	DO AO- NO NO NO
18	00 09	E 21 E
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	18 1	71
	03 0SA 0SA 067- 0618 17XC 03 0W 04	
18 10 07 81	90 80 11	17
05 05A 05 02	05 02 02 02 02 02 02 02 02 02 02 02 02 05 05 05 05 05 05 05 05 05 05 05 05 05	05 11F
	10	13
MC 0618 MMN- LO C7- 03 MN C6-	CN2 03 03 CNL6 	CN2 02 02 02 CN2 CN2 CN2 CN2
01 00 01	08	13
C6 03 03 11F	MC 1SF MMN- 04 04 05 1TF TX E E C5 1TF TX C5 05 05 05 05 05 05 05 05 05 05 05 05 05	C5 0SA 0SSA 1TX C5 1TF C5 MN MN
	60	4 L
C7 1SF MMN- 05 CNL5 MC 1E18	C6 E4 O5 MN C- CN2 TXC C6 MC- C03 TXC C03 TXC C03 OSA K065	
09 07 09	18 10 10	18
TX CN3 CN3 OSA	C7 E3 CN7X MC 1TF TX MC 0SA C7 C7 C7 CN4 0SA 0SB	CN4 RM ORB- CN4 CN4 OSA TX CN4 IE18 CN4
	08	
TXC TX E3 CN7X TX MN TX TX 0E18 C5-	TX E1 TXC TXC 0618 C6- TX TX TX TX TX TX TX TX TX TX TX TX TX	
18 07	18	12 17 17 18
15A L0 15A 1TF 1X 1SA E4 C5A-	15A NN NN 15A 15A 17F 15A 15A NO- NO-	15A L0 TXC 15A 02 15A 15A 15A 0618 0618 0618

	8	18	
D0 17X 17X 17X 17X 17X 17X 17X 17X 17X 17X	A0- TTY TY	OE18 OE18	0E18 1SA 0E18 0E18
11 41 71	51 91	0	
A0 TXC D0 KA- 03 K065	02 17. 02 02 02 17. 02 17. 17. 17. 17. 17. 17. 17. 17. 17. 17.	E3 MM·	MMP MMP E4
18	18 17 17		
03 04 04 08	MN 33	DO CNLO	403. E2 E5 E3
13	18	05	341,
	06-17-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7	CN2 E6	340, 340, 340, 340, 340, 340, 340, 340,
4	9		
GN2 F TX - F TX - TELS MA TX - TELS	CN2 XA- CN2 CN2 CN2 CN2 CN2 CN2 CN2 CN2 CN2	35. 55 XX	n boards E3 MP R0 R0 XR
11	71 71 71	17	is or 01 02 02
	0.54 0.55 0.54 0.54 0.54	ж [.] ш.	cp2 CP76 CP76 MP
	CN3 06 18 06 06 06 06 06 06 06 06 07 06 18 06 18 06 05 06 06 06 06 06 06 06 06 06 06 06 06 06	W C W W W	for one s CP76 MP CP3 O1 CP2 MP CP3 MP
CN4 OSA CN4 TX TX CN4 CN4 CN4 CN4 CN4	CN4 KO65 CN4 CN4 CN4 CN4 CN4 CN4 TX TX TX	CN4 1TF C7 1TF	ide. Logic CP6 CP4 CP4 MP CP6 1TF CP4 CP4
1X 0E18 02- 1X 1X 1X 0L4 0L4 1X 1X 1X	TX 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 17 17 18 18	D D
81 1.7 81	16 16 18		۳ <u>ب</u>
1SA RM 032- 1SA 0E18 0E18 A0	15A 15A 15A 15A 15A 15A 15A 15A 15A 15A	1SA 0SA 1XC 1SA 0SA	MP or tes 0SA 1SA 1SA 1E18 0SA 1SA 1SA 0SA
Marker number 173	174	175	176
Tape stops			

		60	
0È18 E5	1618 MMP 1618 15A 15A 17F	E5 1E18 MP	MMP XR XR E4 CP5 CP5 ISA
			01 01
E2	1SA E5 1SA E5 0E18	E2 1SA 1SA 1TF	D0 0E18 E2 CPU7 E3 0E18
	07	10	05
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Marker number

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N T N T N T N T N T N T N T N T N T N T	st, ze T0 T0 1TF T0 1E18 K065 T0	T0. KB- T0	10 0E18 108 06- 10 1E18	TO 1518 03 NP TO
	d te	08	05	10
NP OSA 1SA OTF	NP ar 15A 15A 15A 0SA 0EL 15A 15A	108 NP 15A 05A	1SA TP K06-	15A 15A 17F 18A 18A 18A
	216		217	

Marker number

05 08		04		05 08					
03 03 05A 10 17	. 4년 .	0E1	TP T08	٠٩٠٠	OSA TO NP	• •	QN Q		•
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MNA- MNA- 03 03 06 18 06 18 03 03	03 T0B	45	٠ ٠	× ZX ×	0È18 T0B 1TF	• •	•	. • •	•
02 02 01 01	05			10	05	56		60	
	.₹	02 T0B	04. KB-	03 KB·	т ў 1Ё18		X		-0N
90		05	60	90		.83		328.	10
NX KK KN NX KB WAY	. A .	. 03	. 05	·×6.	RX NX- OSA	27, 3, NX NX	0TF	327, NX NX	٠
01 07	07			60	10	ds 3		ards	
AX. TTF RB- CE CE CO OO OO	٠. س	E KB-	.06 NP	·₹ . [⊼]	04 0E18	n boards 1TF	1E18	on boards OTF OTF	×
80 80		80				is o		(is	
AK. AX. AX. AX. AX. AX. AX. COMP	AK-AX-	ХА .	E.	K NP K065	-SSSS	de NX 1E18 1E18	1SA	side NX IE18 IE18	II.
90	8				60	S		zero	
Ač 00SA 00SA 11F AK 11F 00EL	AC 1TF	AC NP	AC 1E18	AK 1TF 0EL	. х 108 Т	for one 1SA 1SA	0E18	for SSA SSA	1E18
03				03	02)i(gic	
TX 0E18 TX TX TX NP 03A- TX	TX. NE18	XTT			XNA.	side. Logic OE18 OE18	side. NO	zero side. Logic IX 0E18 IO 0E18	side 1SA
03 0EL 170 088 0084 039 03 051 051 051 051 051 051 051 051 051 051	K- 10 0SA 06 KB	T0 1E18	7005 T0 0E18		10 11F 10 09 TPO-	test, one NO NX	nd test, one side. NX NO	test,	NX and test, zero side 1SA OE18 1SA
K- 128 128 128 128 158 158 1618	KB- 1SA 0E18	1SA OSA	ISA AXI	15A 0E18 T0B	AX- 1SA 1E18 1SA	NX or OSA OSA	NX and 1SA	NX or OSA 1SA	NX ar 1SA
218		219				220	221	222	223

20	03	00	01 02
· · · · ‡	: 132 115 115 115 115	11F 132 11F 11F	000 000 100- 100- 132 K
		90	08
132 132 1618	132 082 1618 0618 1618	1518 132 1TF 1E18 1SA	1E18 086
05			10
438. 1TF 1SA	11.5 K 13.2 13.2 15.4 13.2	132 1SA 1TF 1E18 1SA 0E18	1SA 10 10 10 10 10 10 10 10 10 10 10 10 10
337,			10
336, 1E18 1E18 132 0E18	1618 81 0618 7 7	1TF 0E18 1E18 1SA 0E18	0618 K K 108 1618 1618 10 10 10 10 10 10 10 10 10 10
oards	03		03 08 08
on bo 1SA 1SA 1TF 132	115A 82 085 82 086	1E18 132 15A 0E18 0B2 0B5	132 0 . 132 15A 15A 10B 15A
2 is			80 80
ide 13 0E18 0E18 1E18 K	0618 BB3 IIC IIC IIC BB3	1SA K 0È18 132 B3 0B6	IP B4 0TF 0TF B6 0E18 0E18 132 B1
s s	90		05
	11. 11. 11. 15. 16. 17. 18. 18. 18.	0E18 D IC K K B5	IC B6 1E18 132 132 132 132 172- 100 100 100 100 100 100 100 100 100 10
ogic.		80	07
	D B6 1E18 B1 132 B2 B2 B6	BB 11. X T	ide. 17X 17X 15A 15C 17XA- 17XA- 17XA- 17XA- 17XA-
e si	05 04	90 80	01 01 01 01 01 01 01 01
4	15A 15A 176 176 176 176	1C T0 T0 07 T0 T0 B6 132	and test, o T0 0E18 06 LP T0 T0 T0 T0 1SA 02 IC-
132 or 0SA 1SA 1SA	0.54 0.58 0.58 0.58 0.58 0.58 0.58 0.58 0.58	0SA 132 0SA 132 0SA 132 15A	132 158 158 158 158 158 158 0E18
224		225	226

	90		80	07		80	88				05	05				
	ط · ۰ ب	132 1C-	082 KB	. 급 .	1SA IC-	082 KB	132	1SA IC-	1SA IC-	ořF	0E18	0È18	132	1 <u>E</u> 18	085 LP	
		05	0		02	6		05	05						90	
	K KHRS	. 082	085 D-		0È18	086 D-	- 6- 6-	0È18	0E18	1È18	132 K	132 K	OŤF	1\$A	0B6	
	03			90			90									
	Пр ·	X X	K 085 DA-	ıp.	132 K	K 086 DA-	·~ .	132 K	132 K	ısa	085 KB	085 KB	1 <u>E</u> 18	0E18	LP TOB	•
			90			05					10	0			8	
	D 132	XB 88	B2	D KHRS	086 KB	18 · ·	IP KHRS	085 KB	.∼≅	0E18	086	5 d .	1SA	132	-× .	•
		10		04	10		05	0	10							
	B1 OTF	∡ .5	B3 132 B1-	82	. × . 0	B3 I32 B2-	٠ .	·~ .	20.	132 T0	PA-	2 × 5	T0 0E18	. * E	19 132	
											90	6 8		g	3	
	B2 1E18	BEO 108	B5 OTF BL0	B3 I32	85 BL1 T08	B5 OTF BL0	B1 I32	B5 812	81 86-	108 108	B4	۰. ۵	132	24	D OTF	•
		88	03		94	03		95	8 8	88			8			
	B3 1SA T0	δ ·	B6 1E18	B4 OTF		B6 1E18	B3 OTF	. B6 .	. B4		B6 132	86 86 132	· d I	211	1518	•
				8	Š				8	8			8	2 6	5	
	B6 0E18 T0B	132 P-	TX 1SA 1C-	B6 1SA	TX 132 D-	TX 1SA IC-	86 1E18	132	132 132	KB-	TX 0TF	g X F	LP 84	B4	86 1SA	20
	80		05			02				90	;	6	90			
	10 132 10 00 00 10 00 10 10 10 10 00 10 00 10 00 10 00 10 00 0					T0 0E18	18A	01 P	10 01 01 01	. 18	T0 1E18	T0 1E18	.03	50.5	10 0E18	5
								8	8 8	6			5	3	6	6
	15A 082 LP	IC	15A 132 K	108 132	1SA 1E18	15A 132 K	108 15A 0E18	1SA 1E18	1SA 1E18	15A 132	1SA 1SA	1SA	ISA 1SA	1SA OTF	15A 132	•
Marker number	227					228					229					

0.0	03		07	00 02 08
· · • • • • • • • • • • • • • • • • • •	132	osa oře osa	OTF OTF OE18	
		90	80	03
438. 132 132 02	OȚF 132 1E18	0É18 1É18 0É18	1518 132 1518 132	132 K
•	lë18 OřF OSA	085 05A 086 132	0SA 0ŤF 0BS 132	17F 1P 2 IC- 1TF 1TF 0E18 7 TOP 1P
ards 335, 1E18 1E18 132 0E18	0\$A 1E18 0E18	к. к. к. отғ	0E18 1E18 0E18 0B6	1E18 Bi 7. 0 1E18 TX TX TX C 6. 0 74 0B5- 04 0B5-
is on boo OSA OTF K	0E18 0SA 132	B2 132 B1 1E18	LP 05A K LP 1È18	0.8A 1.7X 1.7X 1.7X 0.8A 1.7X 0.7X 0.7X 0.7X 0.7X 0.7X 0.7X 0.7X
132			8	08 08 09 00
side 0E18 0E18 1E18	132 0E18 1C	B3 IC B3 OSA	k 0ë18 Bl ië osa	0618 1XC B4 TXC 0E18 0E18
zero		05		80 80
Logic for I32 IP OSA IC	ic.	85 D. 85 0E18	D 132 83 85 132 0E18	IC B6 I32 IP T0- T0- T0- T0- B4 03 KD1 B6
side. TX TX TX				side. TX TX TX 1TP B6 IC TOA- B6 TX TX TX TX
zero s		05	90 07	zero 02 02 01
test, 7 10 10 132 132	B3 03 TX B4	1X 0TF 84 1X 0TF	7. B6 TX	d test, 70 T0
132 or 0SA 1SA 0SA 132		132 158 058 058 132 158 058	1SA 132 1SA 132 0SA 1SA	132 and 15A 15A 05A 05A 15A 15A 15A 15A 15A 15A 15A 15A 15A 1
230			231	732

	07			
1E18 LP KB D- 0.0SA B6 CP CP C	008A 1132 1132 1132 1132 1132 1132 1132 113	1TF 1E18	6	1
88 60 60	02		e ee	5
0SA . K . DA- TOP . K	0618 177 177 176 KB 170 0618	1E18 0SA B6		•
90 20 90	01		10	
0E18 B1- IP BL7 	LP TXC TXC 1E18	0SA 0È18 TOP	o . oo	5
04 04	80	07		
085 085- 085-		0E18 K	1TF 6 0TF	-
	00 00 00		211	
K B3 132 132	1P 84- 0E18 83 10P 81 	833 T X	board 1E18 1TF 1E18	7
03	07	03	uo s	
85 117 117 83 KHRS 117 117	D B6- 10P 132 132 132 10P 1X 10P 1X	IC TXC B3	de G is 1SA 1E18 1E18	5
03	06 07 07	80	e sje	
B3 KHRS B6 1E18 	B1 TXC B6 B3 B6 F1 F1 F1 F1	B1 B4 TXC	for one 0E18 1SA 0E18 0E18 0E18	7
04	03 08	88	gic 1	
K B4 B3 B2 K 32 . 04 KHRS . 03 B3 51 TX B6 B5 B3 61 TX B6 B5 B3 62 TX . 03 B3	132 132 0 86 1518 1518 132 132 132 132 132	B4 IC B6	e. Lo E18 0E18 de.	3
02	03	07	side e sid	
TX 132 132 10 0E18 177 177 170 0E18	5125235815185	TX TX 132	r, and r	ı
80 80	03 09 09 09		G or test 0SA 1SA 6 and test 1SA	
15A 117 17X 15A 085 1 15A 1 15A 086	15A 15A 15A 15A 0E18 15A 15A 15A 15A	1SA 132 1SA 1TF	G or 1SA 1SA 1SA 1SA	2
Marker number 233	234	235	236	
Tape				

05		\$		07	
	A .	132 132 132 132	11F 11F 132	03 04 02 11F	02
99	00	03			
	٩	435. 02	TE 18 TE 18 TE 18 TE 18 TE 18	04 L32 05 L32 03	03 1TF
05	6	330,		08	
11. 6 6 0TF	. m @ .	329, 04 132 03 153 1618 1618	15A 15A 1E18	05 11F 06 04 1SA	04 1E18
8, 2	05	328°			10
209, 2C OTF OTF 1E18	6 1TF	; 327, 05 05 11F 05 11F 1SA 1518	0E18 0E18 1SA	06 L32 L52 LC L32 L5 05 05	05 1SA
spu		oards		60	
on boar 1E18 1E18 0SA 0TF	1TF 6 1E18	s on boar 17F L32 1E18 LC 1E18 0E18	05 L32 0E18	LC 117F 117F 117F 118A 06	06 L32 0E18
side G is 0SA 0SA 0E18 1E18	1E18 1TF 0SA	side L32 i E18 E17F 17F 1SA E 02 132 03	× . 05 . 90	K. 1E18 0E18 E. 1E18 0E18 LC LC L32	LĊ 1TF L32
for zero 0E18 0E18 K CSA	0SA 1E18 0E18	c for one ISA C6		E	K. 1E18 TS0
side. Logic G K G G OE18	sic.	e side. Logi CR5 CR5 1SA LP AP 1TF LP K		0 0E18 03 03 0E18 150 E 1E18	
, zero E D D E	test, zero K 0E18 E 01 D-	test, one s TO AP OE18 K TO 1E18 LC TO 03 .	CR5 TO TO	152 150 150 158 158	D: 0E18 TO
test		or te			10
6 or 0SA 1SA 0SA 1SA	6 and 15A 15A 15A		0SA 132 132 0SA 154	0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54	L32 0SA L0 1SA
238	239	240	241		242

Marke	243
ape	

05	05 05 06	03 04 03
06 L32 03 LC- 03 KB- 0E18	05 05 	01F 10 1 1E18 04
03 03	03	01 01
04	06 L32 L32 T0 06 L32 OTF KB-	
	03	05
LC 1618 1618 1632 1632 1632 1632 1633 1643 1643 1643 1643 1643 1643 1643	LP 01F 03 108 10 10 10 10 10 10 10 10 10 10 10 10 10	
20 0	60 20	88 88
K 1SA 06 06 07 06 03 03 03 03 06 06 07 06 06 07 07 07 07 07 07 07 07 07 07 07 07 07	LC 1E18 06	0E18 T0 1E18 T0 LP
90 10	00	
	7. APP 13.8 1. 10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	
40	4 9 6 6	07 07 02 09 09
CR5	E 0E18 LC	L32 0É18 C6 D
03	00 88	88
CR5 L32 CR5 OE18 CR5 CR5 CR5 CCR5	66 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	TSO DA- 06- 132 TO C3 D 06- C3
40	00	10 04
de. AP. 02 AP. 02 AP. 02 AP. 02 AP. 02 AP. 03 CKB- 132 CK	AP L32 L32 AP OTF CR5 C6 C6 C6 C6 C6 C6	C3
one s 03	00 04	00 01 07
test, o 10 04 04 04 10 10 10 10 10 10 10 10 10 10 10 10 10	02 02 02 02 05 06 06 06	10 · 10 · 10 · 10 · 10 · 10 · 10 · 10 ·
0 1 0 10 10 10 10 10 10 10 10 10 10 10 1	07	
13.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	15A 004 00MD0 15A 15A 004 004 15A 15A 15A	1SA L32 KB- 1SA 06- 07F KB- 1SA
243	244	245

					03					8	07				
1Ë18	L32	1 E 18	L32	1.32	1E18	L32	OŢF.	OŢF	. 02	03	L32	OŢF	05	L32	
			05												
isa	329, 435. OTF	0\$A	OTF	OŢF	L32 0SA	OŢF	1Ë18	1Ë18	03	L32 04	07 L32 02	1Ë18	03	OŢF	•
m	3.88	ω.	σ.	ω.	m	m			_		_			~	
0E18	327, 33 1E18	0E18	L32 1E18	ıĖl	OTF OE18	1Ė1	OSA	OSA	.49 .	0TF 05	OTF 03	OSA	. 8	ıĖ18	•
	(°)												8	3	
L32 T0	ds 320 0SA	03	OTF OSA	OSA	1E18 L32	OSA	0E18	0E18	05 L32	1E18	L32 1E18 04	0E18	.02	OSA	•
	00a r											8			
TS0 T08	is om t 0E18	.05	1E18 0E18	0 <u>E</u> 18	0\$A 05	0È18	L32	03	06 0TF	OSA LC	0TF 0SA 05	TŠ0	.90	L32 0E18	•
10	.32										•				
44.	side L L32	P	0\$A 03	132	0È18 LP	03	95	.90	LĊ 1E18	0E18 K	1E18 0E18	L32 D	. J	<u></u>	•
40	zero														
.00	c for z	LC	0È18 LP	03	8 8	90	LP.	۰.	K. OSA	ខា	OSA LC LC	01F C3	٠٠,	150 TS0	•
10	og j	7	5			04									
52 ·		۳.	L32 K	CC	.무교	cR5	.~	AP.	E . 0E18	93 _Q	0E18 C6 K	1E18 C6	. ц	C3 R	•
	o S							05				9	80		
T08 T0 L32	st, zer AP	.02	LC LC T0	٠,	D	L32 T0	. ш	T.	D: L32	55	L32 T0	05A T0		10 TO	
01	tes	5		20	80		40								8
1SA OTF	L32 or 0SA	1SA	0SA 1SA	OŠA	1SA OSA	OTF 1SA	OSA	15A	132 0SA 1S0	1SA 0SA	02 15A 05A	0E18 1SA	L32 0SA	15A	•

247

Tape stops

	03 KB- 03 LC- 0E18 KB- 1E18 1E18 05	0618 05 05 1118 177 06- 05A K- 05A	11F
	02 01 02	03	00
	04 02 02 05 05A 0618 0618	03 00 00 00 00 00 00 00 00 00 00 00 00 0	1E18 K- L0 05 0E18
	40	05 09 09 00 00	
	05 10- 10- 10- 10- 10- 10- 10- 10-	00MD0 LC 0E18 0SA K- TSO TSO	08A KB- TS0 LC- 06 L32 L0
	0 0 0 0	00	01
	06 06 06 06 06 06 06 06 06 07 08 06 08		0E18
	05	01 01	
		AP- P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LC F. LC LC LC
	03	08 07	60
·	Side. ITF LC CR5- CR5 O6	CR5 AP 1E18 D LC- C6 C6 C6 DA-	C6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-
	.ero	00 08	07 08 08
	and test, zero s 1618 1618 160 1818 170 03 LP- 63 TOA- 70 70 70 8 OSA 8 CR5	10 132 10 05A AP TOA- 10 66- 10 10 10 10 10 10 10 10 10 10 10 10 10	10 132 132 10 0618 10 10
	03 03 03 03 03 03 03 03 03 03 03 03 03 0	05 08 07	
,	158 6 00 00 00 00 00 00 00 00 00 00 00 00 0	15A 11F 15A 0E18 15A 15A 15A 15A 15A 15A 15A	15A CTS CG- 15A 1TF 06- 15A L0 15A 15A
Marker number	248 8	249	250

10		10	10	10	10	10	10	0	10
	DSPX DSPX								DA7
	55 5				10				6
DA8		DA8	DA8	DA7	DA7	DA7	DA7	DA6	
6		10		6		10		6	
ij.	DA8 DA8 DA8	. ·	D1- TTF	Ħ·	DA7 OTF	OTF .	DA8- 1TF	II.	DA6 OTF
336.			10				6		
239, 1E18 DA8	01F 01F 01F	d 336. 1E18 DA8	1È18	326. 1E18 DA7	OTF 1E18	d 326. 1E18 DA7	1 : 18	321. 1E18 DA6	OTF 1E18
on boards 1SA 1TF	1E18 1E18 •	s on board OSA OTF	DA8 OSA	on board : 1SA 1TF	1E18 1SA	is on boar OSA OTF	DA7 OSA	on board 1SA 1TF	IE18 ISA
S		DA8 i	1TF D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ţ		DA7		ŝ	
one side DA8 OE18 lE18	1SA 1SA 1SA	zero side OE18 1E18	11 0E	ne side DA7 OE18 1E18	1SA 0E18	zero side OE18 1E18	1TF 0E18	one side DA6 0E18 1E18	15A 0E18
for D1 1SA	0E18 0E18 0E18	Logic for DA8 OSA	1E18 D1	ic for one DA8 1SA	0E18 DA7	Logic for DA7 OSA	1E18 DA8	for DA7 1SA	0E18 DA6
side. Logic DSP OE18	side. D1 DA8 DA8	ide. DSP OE18	side. OSA DSP	side. Logic DSP OE18	side. DA7 DSP	side. Lo DSP OE18	side. OSA DSP	side. Logic DSP OE18	side. DA6 DSP
test, one s DSH DA8	test, one DA8 DSP DSH	test, zero s DSH Dl	test, zero OE18 DSH	test, one s DSH DA7	test, one DA8 DSH	test, zero DSH DA8	test, zero OE18 DSH	test, one s DSH DA6	test, one DA7 DSH
8 A A	anc	or	DA8 and 1SA 1SA DSPX	7 or A	DA7 and 1SA 1SA DSPX	o	DA7 and 1SA 1SA DSPX	DA6 or OSA 1SA	DA6 and 1SA 1SA DSPX
DA8 OSA 1SA	DA8 1SA 1SA 1SA 1SA DSH	DAB OSA 1SA	DA SI SI	DA7 0SA 1SA	DA 1S 1S DS	DA7 OSA 1SA	DA 15 15	DA 15.	15 15 15 05
251	252	253	254	255	256	257	258	259	260

	0	10	10	10	10	10	0	0 10	10	10
				DA6	• •			DA5		
				10				6		
	DA6	DÅ6	DA5	DAS	DA5	DAS	DA4	DĀ4	DA4	DA4
	10		01		10		10		5	
	OTF .	DA7- 1TF	Ħ ·	DAS OTF	OTF	DA6- 1TF	Ŧ.	DA4 OTF	OTF.	DA5- ITF
		10				6	-			10
	oard 321. 1E18 DA6	1 E 18	ird 230. 1E18 DA5	0TF 1E18	board 230. 1E18 DA5	1E18	ird 230. 1E18 DA4	OTF 1E18	board 230. 1E18 DA4	1 <u>E</u> 18
	DAG is on board OSA 1 OTF D	DA6 OSA	is on board 1SA 1TF	1E18 1SA	DAS is on t OSA OTF	DA5 OSA	is on board 1SA 1TF	1E18 1SA	is on OSA OTF	DA4 0SA
	zero side DA OE18 1E18	1TF 0E18	ne side DA5 0E18 1E18	1SA 0E18	zero side DA OE18 1E18	1TF 0E18	ne side DA4 0E18 1E18	1SA 0E18	zero side DA4 OE18 1E18	1TF 0E18
	Logic for z DA6 OSA	1E18 DA7	Logic for one DA6 1SA	0E18 DA5	Logic for DA5 OSA	1E18 DA6	Logic for one DA5 1SA	0E18 DA4	Logic for z DA4 OSA	1E18 DA5
	00	zero side. 3 OSA DSP	ide. DSP OE18	e side. DA5 DSP	o side. DSP OE18	zero side. 3 OSA DSP	side. DSP OE18	e side. DA4 DSP	o side. DSP OE18	zero side. 0SA DSP
	DA6 or test, zero side. OSA DSH DSP 1SA DA7 OE1	test, ze OE18 DSH	DAS or test, one s OSA DSH ISA DAS	test, on DA6 DSH	or test, zero DSH DA6	test, OE18 DSH	test, one DSH DA4	test, one DA5 DSH	test, zero DSH DA5	test, OE18 DSH
	DA6 or OSA 1SA	DA6 and 1SA 1SA DSPX	DA5 or OSA 1SA	DAS and 1SA 1SA DSPX	DA5 or OSA 1SA	DAS and 1SA 1SA DSPX	DA4 or tes OSA 1SA	DA4 and 1SA 1SA DSPX	DA4 or te OSA 1SA	DA4 and 1SA 1SA DSPX
Marker number	261	262	263	264	565	566	267	268	569	270
Tape stops										

10	10	10	10	10	10	10	10	10	10	10
	DA4		• • •		DA3				DA2	
	10				6				6	
DA3	DA3	DA3		DA2	DÀ2	DA2		DA1		DA1
10		10		0		10		10		10
Ĭ.	DA3 OTF). OTF	DA4- 1TF	11.	DA2 OTF	OTF .	DA3- 1TF	H.	DA1 OTF	0TF
211.		ر2 , 21	0			_	0			
ds 210, 1E18 DA3	0TF 1E18	boards 210, 1E18 DA3	1 <u>5</u> 18	က	OTF 1E18	board 340. 1E18 DA2	1 <u>:</u> 18	d 440. 1E18 DA1	OTF 1E18	board 440. 1E18 DA1
on boards 1SA 1TF	1E18 1SA	is on bc OSA OTF	DA3 0SA	on board 1SA 1TF	1E18 1SA	is on bo OSA OTF	DA2 OSA	on board 1SA 1TF	1E18 1SA	is on bo OSA OTF
side DA3 is OE18 1E18	1SA 0E18	zero side DA3 OE18 1E18	1TF 0E18	side DA2 is OE18 1E18	1SA 0E18	zero side DA2 OE18 1E18	1TF 0E18	side DA1 is OE18 1E18	1SA 0E18	zero side DAl OE18 1E18
Logic for one DA4 1SA	0E18 DA3	Logic for DA3 OSA	1E18 DA4	ogic for one DA3 1SA	0E18 DA2	Logic for ze DA2 OSA	1E18 DA3	Logic for one DA2 1	0E18 DA1	Logic for ze DA1 OSA
side. L DSP OE18	side. DA3 DSP	side. DSP OE18	side. OSA DSP	side. Logic DSP OE18	side. DA2 DSP	side. DSP OE18	ost	side. L DSP 0E18	side. DA1 DSP	side. DSP OE18
DA3 or test, one s OSA DSH TSA DA3	DA3 and test, one 1SA DA4 1SA DSH DSPX .	DA3 or test, zero OSA DSH 1SA DA4	DA3 and test, zero 1SA OE18 1SA DSH DSPX .	DA2 or test, one s OSA DSH 1SA DA2	DA2 and test, one 1SA DA3 1SA DSH DSPX .	DA2 or test, zero OSA DSH 1SA DA3	DA2 and test, zero 1SA OE18 1SA DSH DSPX .	DAl or test, one s OSA DSH 1SA DA1	DAl and test, one 1SA DA2 1SA DSH DSPX .	DAl or test, zero OSA DSH 1SA DA2
	272 DV	273 D/ 00 113	274 DI	275 D/05	276 D/	277 D/0 05	278 D/	279 D/ 08 08 13	280 13 13 14 15 15 16 17 18	281 D/05

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		02 1ŤF	1E18 03 0è1	02 1 E 1 8 0 S A 0 E 1 8	11F 03 	02 11F
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		04 1.sA		04 0E18	05A 05. 03.	04 15A
	. 01 1. 01 1. 01	1318. 05 0E18	7P 0Pi 01 8A	05 05 PS TP 04	0E18 K 0P1 0E18 04 02 *TD	d 223. 05 1 OE18
	DA1 OSA	s on board K 01 TP	06 0P1 0E18	is on OP1 TP TP 06	PS	is on board K 01 TP 01 .
	1TF 0E18	side OP1 i E OP1 06	OP1 E OTF TP	zero side OP1 K OP1 06 07 07 K 02	TP PS C2 C2 1E18 TP TP TP TP TP C	side 0P2 E 0P2 06
	1E18 DA2	c for one C2 1TF 0P1	C2 C2 C5 C5 1E18	ic for zer 0TF C2 C2 C2 E 00P1	06 02 *TD C5 0SA 06 06	for one C3 1TF 0P2
	o side. OSA DSP	side. Logic C7 1E18 C5	side. C5 C7 1SA 0P1	side. Log C7 1E18 C5 OP1 C7 OTF	c5 c5 02 c7 02 c7 05 c7 05 c7 05 c7 05 c7 05 c7	side. Logic C7 1E18 C5
	and test, zero OE18 DSH	test, one : T0 1SA TX 0	1 test, one TX OP1 TO 0E18 TX TX	test, zero 10 0SA TX 0P1 TX 0TF T0 1E18	1 and test, zero side. A D1 C2- C7 A T0 C7 C C7	test, one TO 1SA TX
	DA1 and 1SA 1SA DSPX	0P1 or 0SA 0E18 1SA 0P1	0P1 and 1SA 0TF 1SA 02 1SA	0P1 or 0SA 0E18 1SA 0TF 0SA 1E18 1SA	0P1 and 1SA 02 **TD 1SA 0P1 1SA 0P1 1SA 0E18	0P2 or 0SA 0E18 1SA 0P2
Marker number	282	283	284	285	286	287

01F 092	02 1 E 18 0 S A 0 E 18	1TF 03 . 02 . 1TF PS	02 1ŤF	1E18 03 0P3
1E18 04 0ŤF	03 0SA 0E18	1E18 04 01 0X0 1E18 02	03 1E18	1SA 04 0TF
1SA 150 01 0X0 1E18	223. 04 0E18 PS 03	05 05 03 03	35. 04 1SA	05 01 00 00 00 00 00 00 00 00 00 00 00 00
0E18 0P2 1SA	oards 222, 05 01 PS TP 04	0E18 K 0P2 0E18 04 04	rds 334, 3 05 01 .	TP 0093
TP K 00P2 0E18	P2 is on 0P2 TP TP 06 05 05 05 05	88 3 1 . 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	is on by X .	06 K 0P3 0E18
06 07 77	ero side 0 0 0 2 0 0 6 0 0 7 0 7	7P 02 *TD C3 1E18 02 *TD K 0P2	e side 0P3 0P3 06	0P3 E 0TF TP .
0P2 C5 1E18	N	06 C5 0SA 06 1TF	gic for one C4 1TF 0P3	01 C4 C5 1E18
cest, one side. TX C3 T0 C7 OE18 1SA TX OP2 C5-	st, zero side. Long C7 C7 C7 C5 C5 C5 C5 C5 C5 C7 C5 C5 C7	test, zero side. TX C5 C5 T0 C3- T0 C7 PS 0E18 PS C3 TX C3 TX C3 TO C5- T0 C5- T0 C7	st, one side. Lor TO C7 1SA 1E18 TX C5	cest, one side. TX
0P2 and ± 1SA 0P2 0P2 1SA 0P2 1SA 0P3 0P3 1SA 0P3 1SA 0P3 1SA 0P3 1SA 0P3 1SA 0P3 0P3 1SA 0P3 0P3 1SA	r	0P2 and t 1SA 0P2 1SA 02 *TD 1SA 0P2 1SA 0E18	0P3 or te 0SA 0E18 1SA 0P3	0P3 and t 1SA 0TF 1SA 02 1SA 1SA
288	289	290	291	292

		05	03 33 33	
	02 1E18 0SA 0E18	1TF 03 	06 · · · · · · · · · · · · · · · · · · ·	0TF 1E18 0E18 06
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	03 05A 0E18 02	1E18 04 0X0 1E18 02	1176 06 06 06 15A 17F	1518 15A TP 0TF
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	ds 33 05 PS TP 04	0E18 NF 0P3 0E18 *TD	rd 22. 1SA 1E18 1E18 1E18 1E18 7P 7P 7P	0E18 TP 0B6 1SA 0TF
	01	02	74 2	
	is on OP3 TP O6 05	PS FS TTF TTF O5 O5	n board 22. 0E18 1SA 1SA 1SA 1SA 06	06 06 17 10 10 KED3 0E18 0E18
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	side K 0003 006	47P 47D 64 1E18 7 TP 6P3	side 06 is TP 0E18 0E18 0E18 0E18 0E18 0B6 1E18	086 1X 1C 1C 1C 66 1SA KED2
	N		a	03
	c for C4 C4 C6	06 C5 0SA 06	for one 086	E
	Logi		ic 03	01
	ide. C7 1E18 C5 C5 0P3 C7	side. C5 C4- C7 0E18 C4 C5- C5- C7	side. Log D D A A E E D O E D O E D O E D O D O D O D D D D D D D	de. 0 086 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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	est, zero s T0 0SA TX 0P3 TX 0TF T0 1E18	est, z TX TO TO PS PS TX TX TO OSA	est, one s IC AK AK ID TX TX AK O 06 E E AK	17X One TX One TX One TX ONE OF TX O
	or te	pun 1	0 4	nd te
	0P3 c 0SA 0E18 1SA 0TF 0SA 1E18 1SA	0P3 6 1SA 0P3 1SA 0P3 1SA 02 4TD 1SA 0P3 1SA 0P3 1SA 0E18	06 or 05A 15A 05A 15A 15A 15A 15A	06 and te 1SA 06, 1SA 0TF 1SA 1SA 1SA 1SA
Marker number	293	294	295	296

			03	90	05	
	1SA 1SA	06 OTF	or or	90	06 0SA 1E18	JŢF OSA
		10		8		
E 1E18	0E18 0E18	OTF	06 1E18		1TF 0E18 0SA 06 K	1 : 18 K- 0 : 18
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05	03	ard			92	90 5
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· 06 KD2	IC AK IC KSUO	side (TP TP OSA ID	1E18 0E18 PE	05A 0E18 0B2	PE 0B6 1CP 0B4 0E18	386 P 282
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OTF D	AK OTF TX OTF	st, zer IC D. AK	х х	AK AK	est, zerd 086- 1C 1TF 0 06 AK	D AK
1E18 1SA 06	1SA 1E18 1SA 1E18	06 or te 0SA 01 1SA 03A 0SA	15A 15A 06	1518 15A 0SA 1SA	06 and te 1SA	1E18 1SA 06 1SA 1E18
	297	298			599	

40			
1TF AK-	06 11SA 05 11P	PE 1E18 1TF	1D 1TF 1TS 03 03 1SO 02
40	05		
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0E18 1TF KC- 1E18 06	OSA	CP6 TS0 0E18 	Bi 0E18 0B3
02	rds	03	06
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	ede. Local CL7 ID B6 0E18 B13 TS0 CL7 CL7	. 02 1E18 B4 03 CL7	66 082 082 087 1618 0618 0618 0618
40	e S	04	02
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10	05 r test		
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Marker number 300	301	302	

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M. M. O. PE. MC. M. Tr. 11X. O. O. PE. MC. M. Tr. 11X. O.	03	082 CR2 MC 0TF 15A 1E18 1E18 0E18
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		01 01 07 07
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303	304	305

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Marker number

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312							313		314								

		03	07
0E18 10 1TF 1D 1D	i IP ITF IE18		IP
40		90	
XC JE18 JTF	ir ir iei8	iè 1618 15A 1è 1è18	ITF IP ISA IÈ18 IŤ
	10		
TP IP- OSA 1E18	1E18 1E18 1SA 0E18	11F 1SA 0E18 1TF 1P 1SA	1E18 1TF 0E18 1SA 1E18
10	.8		
k 0E18 0SA 0SA	317, 3 Ip 1SA 1SA 0E18	1618 0618 17 1618 17 0618	1SA 1E18 TP 0E18 1SA
D 8 BL4 0È18 0È18	s on boards 1TF 0E18 0E18 IX	15A 03 05 05 15A 1E18	0E18 1SA 03 03 0E18
04 D B33 - F .	side IP is TP TP TP 04.	06 06 06 05 05	06 06 06 06 06 06 06 06 06 06 06 06 06 0
883 83 10 10 10 10	for one ISA IP K K NC	. MN	90 - MP - 06 - 05 - 05 - 05 - 05 - 05 - 05 - 05
40 40	و آن م	04 03	07
86 1TF 84 KD3 84 84	D. D	.M	ч . т. т
90	sid 02	04	80
T0 1E18 T0 05 XC T0 05 TPB	, v	ARPER. IC	06 D 1C D 1P 1C 1C
		17F 1SA 0SA 11F 0SA 1SA 0SA	1SA 0SA 1TF 0SA 1P 1SA
315	316		317

0E18 0X 1XY- 1XP- 0TF 1 X	0E18 KAK1	1X D 0E18 OTF K-	. d
01	05		
1X 04 04 07F 00TF	TP	04 KD3 IP TX- TX- KC-	OŢF.
	01 01	05	10
TP IIP	05 04 05 05 05 05	NC OTF QX TXP- 1SA KAK1	1E18
5	01 088	01	317.
05 M. MP. OTF 00E18 KAK1 NC NC N	06	MP KAK1 1E18 03	316, IP 0SA
05	02 04 01	02	ards
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00	004	80	P is
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02	90		Logic
70	B1 OTF AK AK 1E18 MP D D IP IP KF	B1 1E18 IP 61 OTF IP	ide. 0E18 IC
one si	80	80	8
test, TX TX TX 1C 1C 1C 1SA AK OTF	15.4 15.4 15.4 15.4 15.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17	AK 1SA IC AK 1E18	test, zero side. IP 0E18 TX IC 01
IP and ISA ISA ISA ISA IE18	1SA 1SA 1SA 1SA 1SA 0E18 MP 1E18 1E18 KC- 1SA 1E18	1SA 0E18 1SA 1C 1SA 1SA 1PA	IP or t OSA 1SA
Marker number 318	319	320	321

02

05

05	07			
0SA 0SA 1P 0E18	OTF IP	ořF IP	OSA 1E18 1TF	NC- IP BLO OSA KC-
02				03
0E18 0FF 03 1E18	1E18 OTF IP	ië 18 OTF	0E18 0SA 1E18	. 1TF
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1X 1P 1E18 04 05A	0SA 1È18 0ŤF	05A 05A 1È18	TP 0È18 0ŠA	16 16 16 17 17
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MN MN 0618 TP	03 0£18 0\$A	03 05 0E18	90 - FT XXI	1E18 0E18 1E18 K- 04
40			05	
0.5A 0.4 0.4 0.5 0.5 0.5 0.5	05 TP 0613	8 ·8 ·F ·	N IX	05A 04 05A NC NC
03 03			10	03
1P 0E18 1P 1P 1P 06	× .8 .× .	8.~.8.	MN. IC-	0618 K- NC 0618 KAK1 B1
		07	01	05
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40	90	88	ora 5	5
D NC NC OTF OTF S3 S3 S3 S5 S6	. O . C	71 . O .	st, z IX IP IP B3	04 XAK1 AK AK KD3 04 04 11F
			70	
0SA 1SA 0SA 1SA 1SA 1SA 0SA 1SA	OSA 1P 1SA 0SA	OSA OSA IP ISA	IP al 1SA 1E18 1SA 1TF	15A 15A 15A 15A 1618

322

	80	05	05	.	
	06:18 KAK1 05A	X · · • •	11F 0SA 	LC 1E18 LC 02	. Pe
	02	10			
	OSA OE18 MP- OSA KAK1		1E18 IP 0E18 KC-	1TF LC 1SA 1TF 03	iře OFLO OFLO
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	9 .X	⊼. <u>M</u> . 333.	0E18 1E18 TP TXP- 0E18	17, 218, 15A 1 i i i i i i i i i i i i i i i i i i	AST
	10	8	10	ds 2	05
	D MNA- MNA- 03- 04	Λ 05.	03. 03. 05. 05. 05. 05. 05. 05. 05. 05. 05. 05	oE18 0E18 0E18 0E18 06	0E18
	07 07			is	
	6 8 6. B.	MP-17F	04 KD3 0E18 0E18 KD1C 03 KD3	for one side LC	E B2 1TF B1 LC
	40	07	08 08	s si	
	MA KD3 NC D O5	MN 17F 17F 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NC OX · NC · N	for or K 03 1P 1P 04	83 1E18 85 1TF
	06 03			og i c	
	B3 117 177 IP MN	D 1E18 K- 83 0SA		side. Logic 06 E E 06 06 CR5 CR5 OF18	85 AK 1SA 1618
			80	S.	
	AK TX TX TX TX TX IP		AK IC. 1TF D	test, one : 1X	
	œ	03	89	or te	8
	1SA 1TF 1SA 0SA 1SA 1E18 MP- 1TF	1SA KAK 1SA 1X	1SA 1P 1SA 1C 1SA 1E18	15A 05A 15A 05A 11F 15A 0618	OSA OSA OE18
Marker number	324		325	326	

		01 01
084 QC LC 0E18 1SA 04	03 E4	1P 03 03 0618 04 04
90		
LC K K K K C OG C OG C OG C OG C OG C C C C C C C	04 E3	D3 V- TXB V- TXB 05 06 1P0 IP0
	60	02
C C C C C C C C C C C C C C C C C C C	05 E1	D4 KIO KIO KIO C5 OMD OFLO K T TSA 1SA 1SA
		00 0
D 17F 05F 0 06F 0 06F 0 06F 0 06F 0 0 0 0 0 0 0	CN2 LC TP	CR5 . 0FL0 LC
90 80	60	05
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07		05
158 158 158 158 158 160 178 178 178 178 178 178 178 178 178 178	E 1E18 LC LC	B5 D 1E18 KED2 B1 06 D 1E18 K- B5 03 03
		40
82 82 11F 85 9618 85 11F 85 11F 85	CS 1SA CN3 1TF	B6 B2 1SA 1SA 1SA KED2 B6 05
		04
B3 QC QC B3 1E18 B6 05 B3 1TF B6 LC AK AK 1E18 B6 0B3	C7 0E18 CN4 1E18	side. AK B; 03 03 03 04 01F 01F 01F 01A 01A 03 03 03 03 03 03 03 03 03 03
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1SA 0B2 0SA 0SA 1SA 1SA 1SA 1SA 0E18 1SA 1SA 1C 1C	0SA 02 1SA 0E18	LC and to 15A OI 15A OI 15A OI 15A OID
327	328	329

		03	10		10										
	1SA K10	PE .XO	D3 PE	.22	03	03 0MD	D3 .	2×3	082	D3 05	•	22	٠×٥	04 OMD	•
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	0E18	OFLO LC OXO	03 KED2	K 0TF	06 BL1	90	.45°	D D	084 RI 1	93 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		K OTF	E. OTF		•
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		CN3 1SA KIO	CR5 OFLO OTF	B3 0E18	· A OTF	ده	cR5 06	B2 0E18	. OTF	. 06	•	D4 0E18	Bi 0E18	IP LC	•
		05													
	D CR5	CN4 0E18	82 082 1E18	. 685 . 0	D 1E18	B2 0TF	82 082	00 00 00 00 00 00 00 00 00 00 00 00 00	03 1F18	81 082 LC	•	B1 QC	85 04	10 B1 OTF	•
	03														
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General, United States Army

Chief of Staff

Official:

J. C. PENNINGTON

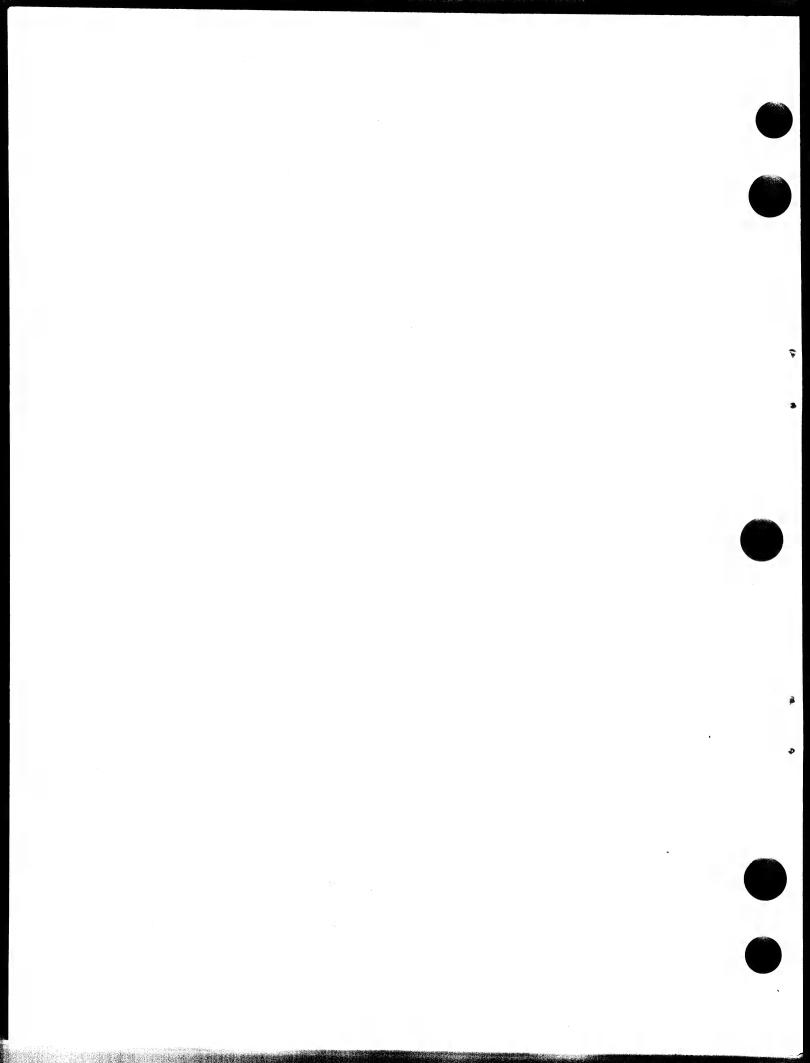
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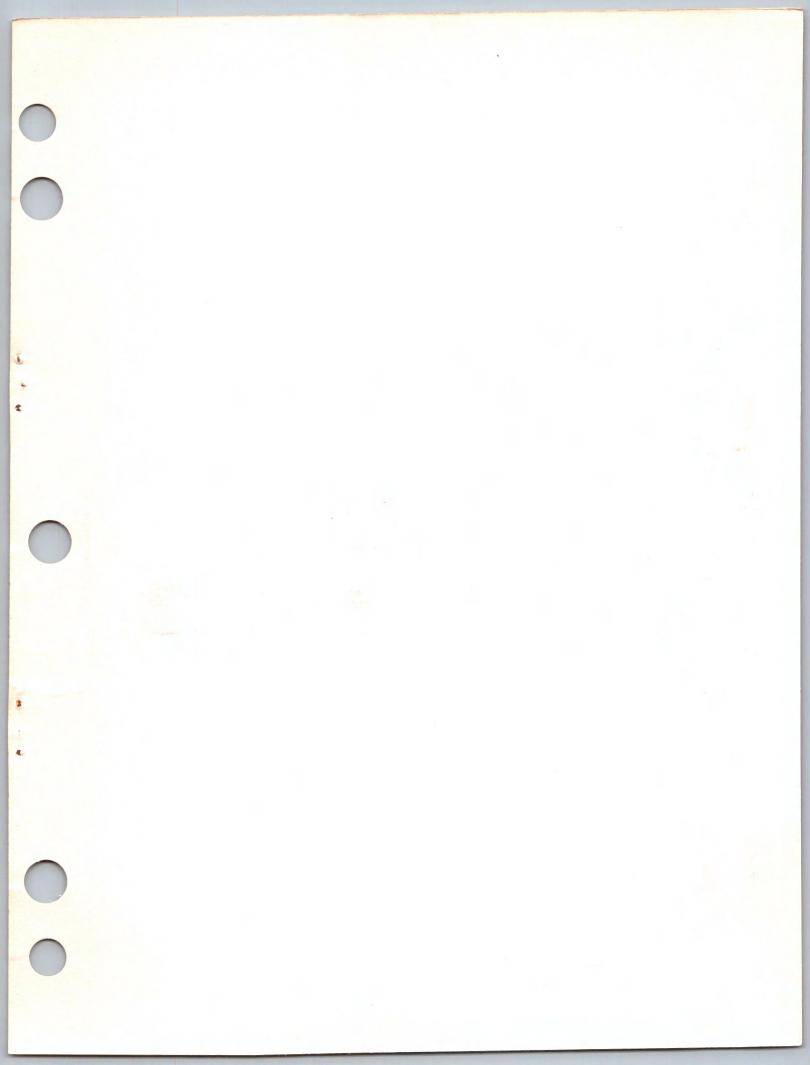
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